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1 Wireless game and game story: Contextual information access and storytelling in mixed reality using hypermedia

Luis Romero, JORGE SANTIAGO, NUNO CORREIA

July 2004 **Computers in Entertainment (CIE)**, Volume 2 Issue 3

Full text available: pdf(480.08 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This article describes gaming and storytelling activities in a mixed environment that integrates the real and virtual worlds, uses an augmented reality paradigm, and is supported by a structuring and presentation framework for use in context-aware mixed-reality applications. The basis of the framework is a generic hypermedia model that can handle different media elements, objects, and relations between spaces and locations in physical and virtual worlds. A main component of the model deals wi ...

Keywords: hypermedia interfaces, hypermedia model, mixed and augmented reality, mobile gaming and storytelling

2 A dynamic flexible grouping over CORBA-based network and its application to mobile computing

Takashi Okuda, Seiji Adachi, Tetsuo Ideguchi, Hiroshi Yasukawa, Xuejun Tian

March 2000 **Proceedings of the 2000 ACM symposium on Applied computing**

Full text available: pdf(348.27 KB) Additional Information: [full citation](#), [references](#), [index terms](#)

Keywords: CORBA-based network, dynamic flexible grouping, flexible work, grouping, virtual organizations

3 Designing adaptive middleware for reuse

Richard Staehli, Frank Eliassen, Sten Amundsen

October 2004 **Proceedings of the 3rd workshop on Adaptive and reflective middleware**

Full text available: pdf(349.94 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Today's software component technology does not support safe deployment of real-time and multimedia applications. We propose <i>platform managed</i> deployment configuration and dynamic adaptation to enable component middleware to exploit adaptive components. An example of a remote video binding shows how alternate configurations are compared using

error prediction functions to select the best for the current deployment environment.

Keywords: QoS management adaptive reflective component middleware MDA

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1 Messengers for the dynamic management of distributed UDDI regist
Maamar, Z.; Yahyaoui, H.; Mahmoud, Q.H.; Mostefaoui, S.K.; Mansoor, W.;
 Mobile and Ubiquitous Systems: Networking and Services, 2004. MOBIQUITOU
 2004. The First Annual International Conference on , 22-26 Aug. 2004
 Pages:346 - 355

[\[Abstract\]](#) [\[PDF Full-Text \(386 KB\)\]](#) IEEE CNF

2 Mobile agent-based shared registry system for electronic commerce Internet domain names
Gannoun, L.; Hulaas, J.; Francioli, J.; Chachkov, S.; Schutz, F.; Harms, J.;
 Mobile Multimedia Communications, 1999. (MoMuC '99) 1999 IEEE Internation
 Workshop on , 15-17 Nov. 1999
 Pages:169 - 178

[\[Abstract\]](#) [\[PDF Full-Text \(880 KB\)\]](#) IEEE CNF

3 Domain Name eXchange: a mobile-agent-based shared registry syst
Gannoun, L.; Francioli, J.; Chachkov, S.; Schutz, F.; Hulaas, J.G.; Harms, J.;
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 Pages:59 - 64

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4 On the optimal selection of proxy agents in mobile network backbon
Kamal, A.; El-Rewini, H.;
 Parallel Processing, International Conference on, 2001. , 3-7 Sept. 2001
 Pages:103 - 110

[\[Abstract\]](#) [\[PDF Full-Text \(832 KB\)\]](#) IEEE CNF

5 Novel and enhanced mobile Internet protocol for third generation cellular environments compared to MIP and MIP-LR

Yap, C.N.; Kraner, M.; Fikouras, N.A.; Cvetkovic, S.R.;

3G Mobile Communication Technologies, 2000. First International Conference (IEE Conf. Publ. No. 471) , 27-29 March 2000

Pages:143 - 147

[\[Abstract\]](#) [\[PDF Full-Text \(452 KB\)\]](#) IEEE CNF

6 XML schema-based discovery and invocation of mobile services

Steele, R.; Ventsov, Y.; Dillon, T.;

e-Technology, e-Commerce and e-Service, 2004. EEE '04. 2004 IEEE Internat Conference on , 28-31 March 2004

Pages:253 - 258

[\[Abstract\]](#) [\[PDF Full-Text \(216 KB\)\]](#) IEEE CNF

7 Organizing and accessing Web services on air

Xu Yang; Bouguettaya, A.; Medjahed, B.; Long, H.; Weiping He;

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Pages:742 - 757

[\[Abstract\]](#) [\[PDF Full-Text \(977 KB\)\]](#) IEEE JNL

8 Design and implement of the home networking service agent:federa using open service gateway

Feng-Chao Yang;

Integration of Knowledge Intensive Multi-Agent Systems, 2003. International Conference on , 30 Sept.-4 Oct. 2003

Pages:628 - 633

[\[Abstract\]](#) [\[PDF Full-Text \(501 KB\)\]](#) IEEE CNF

9 GSD: a novel group-based service discovery protocol for MANETS

Chakraborty, D.; Joshi, A.; Yesha, Y.; Finin, T.;

Mobile and Wireless Communications Network, 2002. 4th International Worksh on , 9-11 Sept. 2002

Pages:140 - 144

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1 [Article abstracts with full text online: Towards software architecture at runtime](#)

Gang Huang, Hong Mei, Qian-xiang Wang

March 2003 **ACM SIGSOFT Software Engineering Notes**, Volume 28 Issue 2

Full text available: [pdf\(316.01 KB\)](#) Additional Information: [full citation](#), [abstract](#)

As Internet and wireless network make the runtime environment much more dynamic and open, software becomes more and more complex and difficult to maintain. Software architecture at run-time (RSA) can help maintainers understand and reason the run-time system. Moreover, RSA helps to keep SA consistent in the whole software lifecycle. This paper presents an approach to three fundamental issues of RSA, including making RSA the first-class entity at runtime, maintaining the causal-connection between ...

Keywords: reflection, runtime software architecture, software architecture, software maintenance

2 [Simulation and implementation issues: DIRAC: a software-based wireless router system](#)

Petros Zerfos, Gary Zhong, Jerry Cheng, Haiyun Luo, Songwu Lu, Jefferey Jia-Ru Li

September 2003 **Proceedings of the 9th annual international conference on Mobile computing and networking**

Full text available: [pdf\(385.84 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Routers are expected to play an important role in the IP-based wireless data network. Although a substantial number of techniques have been proposed to improve wireless network performance under dynamic wireless channel conditions and host mobility, a system support framework is still missing. In this paper, we describe DIRAC, a software-based router system that is designed for wireless networks to facilitate the implementation and evaluation of various channel-adaptive and mobility-aware protocols ...

Keywords: distributed router architecture, wireless network

3 [A general purpose proxy filtering mechanism applied to the mobile environment](#)

Bruce Zenel

October 1999 **Wireless Networks**, Volume 5 Issue 5

Full text available:

Additional Information:

4 A scalable, distributed middleware service architecture to support mobile internet applications

Rajive Bagrodia, Thomas Phan, Richard Guy

July 2003 **Wireless Networks**, Volume 9 Issue 4

Full text available:  pdf(1.26 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Middleware layers placed between user clients and application servers have been used to perform a variety of functions to support the vision of nomadic computing across varying platforms. In previous work we have used middleware to perform a new capability, application session handoff, using a single Middleware Server to provide all functionality. However, to improve the scalability of our architecture, we have designed an efficient distributed Middleware Service layer that properly maintains ap ...

Keywords: application session handoff, distributed middleware, load balancing, nomadic computing, ubiquitous computing

5 Semantics and discovery: Cooperative middleware specialization for service oriented architectures

Nirmal K. Mukhi, Ravi Konuru, Francisco Curbera

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available:  pdf(113.65 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Service-oriented architectures (SOA) will provide the basis of the next generation of distributed software systems, and have already gained enormous traction in the industry through an XML--based instantiation, Web services. A central aspect of SOAs is the looser coupling between applications (services) that is achieved when services publish their functional and non-functional behavioral characteristics in a standardized, machine readable format. In this paper we argue that in the basic SOA model ...

Keywords: metadata exchange, middleware reconfiguration, service-oriented architecture, web services

6 Gravity: supporting dynamically available services in client-side applications

Richard S. Hall, Humberto Cervantes

September 2003 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 9th European software engineering conference held jointly with 11th ACM SIGSOFT international symposium on Foundations of software engineering**, Volume 28 Issue 5

Full text available:  pdf(1.53 MB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

This paper describes a project, called Gravity, that is providing support for building client-side applications out of dynamically available building blocks. The purpose behind this work is not only to deal with real-world issues already facing developers and end-users, but to also work toward a grander vision. In this vision, applications are built using context-aware architectures, meaning that context (e.g., location, environment, user task) is used as a filter to determine which building blo ...

Keywords: OSGi, component-oriented programming, dynamic availability, service-oriented programming

7 Middleware for mobility: SyD: a middleware testbed for collaborative applications over small heterogeneous devices and data stores

Sushil K. Prasad, Vijay Madiseti, Shamkant B. Navathe, Raj Sunderraman, Erdogan Dogdu, Anu Bourgeois, Michael Weeks, Bing Liu, Janaka Balasooriya, Arthi Hariharan, Wanxia Xie, Praveen Madiraju, Srilaxmi Malladi, Raghupathy Sivakumar, Alex Zelikovsky, Yanqing Zhang, Yi Pan, Saied Belkasim

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware**

Full text available:  pdf(441.56 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

Developing a collaborative application running on a collection of heterogeneous, possibly mobile, devices, each potentially hosting data stores, using existing middleware technologies such as JXTA, BREW, compact .NET and J2ME requires too many ad-hoc techniques as well as cumbersome and time-consuming programming. Our System on Mobile Devices (SyD) middleware, on the other hand, has a modular architecture that makes such application development very systematic and streamlined. The architecture s ...

Keywords: SyD coordination bonds, application-level QoS, atomic transactions, mobile servers, object and web service coordination

8 Middleware for mobility: Dynamically programmable and reconfigurable middleware services

Manuel Roman, Nayeem Islam

October 2004 **Proceedings of the 5th ACM/IFIP/USENIX international conference on Middleware**

Full text available:  pdf(651.39 KB) Additional Information: [full citation](#), [abstract](#), [references](#)

The increasing software complexity and proliferation of distributed applications for cell phones demand the introduction of middleware services to assist in the development of advanced applications. However, from the user perspective, it is essential that these new phones provide a smooth error-free experience. Despite of the complexity underlying a cell phone, placing a phone call remains a simple task that can be performed by most users regardless of their technical background. Furthermore, ce ...

9 Web technologies and applications (WTA): Using XML and related standards to support Location Based Services

Anastasios Ioannidis, Manos Spanoudakis, Panos Sianas, Ioannis Priggouris, Stathes Hadjiefthymiades, Lazaros Merakos

March 2004 **Proceedings of the 2004 ACM symposium on Applied computing**

Full text available:  pdf(270.83 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)


Location Based Services can be considered as the most rapidly expanding field of the mobile communications sector. The proliferation of the mobile/wireless Internet, the constantly increasing use of handheld, mobile devices and positioning technologies and the emergence of mobile computing, prepared the grounds for the introduction of this new type of services with impressively large application domain and use range. The combination of position fixing mechanisms with location-dependent, georgrap ...

Keywords: Web Services, XML, location based Services

10 E-services: Fulfilling the Web services promise

Heather Kreger

June 2003 **Communications of the ACM**, Volume 46 Issue 6

Full text available:  pdf(107.90 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)
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The creation and support of standards for Web services is a critical component to their effective functionality and ultimate success.

11 A scalable, distributed middleware service architecture to support mobile internet applications

Thomas Phan, Richard Guy, Rajive Bagrodia

July 2001 **Proceedings of the first workshop on Wireless mobile internet**

Full text available:  pdf(694.99 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Middleware layers placed between user clients and application servers have been used to perform a variety of functions. In previous work we have used middleware to perform a new capability, application session handoff, using a single Middleware Server to provide all functionality. However, to improve the scalability of our architecture, we have designed an efficient distributed Middleware Service layer that properly maintains application session handoff semantics while being able to serv ...

12 Composable ad hoc location-based services for heterogeneous mobile clients

Todd D. Hodes, Randy H. Katz

October 1999 **Wireless Networks**, Volume 5 Issue 5

Full text available:  pdf(403.18 KB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

13 Quality of service: QoS computation and policing in dynamic web service selection

Yutu Liu, Anne H. Ngu, Liang Z. Zeng

May 2004 **Proceedings of the 13th international World Wide Web conference on Alternate track papers & posters**

Full text available:  pdf(146.50 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The emerging Service-Oriented Computing (SOC) paradigm promises to enable businesses and organizations to collaborate in an unprecedented way by means of standard web services. To support rapid and dynamic composition of services in this paradigm, web services that meet requesters' functional requirements must be able to be located and bounded dynamically from a large and constantly changing number of service providers based on their Quality of Service (QoS). In order to enable quality-driven we ...

Keywords: QoS, extensible QoS model, ranking of QoS, web services

14 Dynamic task-based anycasting in mobile ad hoc networks

Prithwish Basu, Wang Ke, Thomas D. C. Little

October 2003 **Mobile Networks and Applications**, Volume 8 Issue 5

Full text available:  pdf(518.68 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Mobile ad hoc networks (MANETs) have received significant attention in the recent past owing to the proliferation in the numbers of tetherless portable devices, and rapid growth in popularity of wireless networking. Most of the MANET research community has remained focused on developing lower layer mechanisms such as channel access and routing for making MANETs operational. However, little focus has been applied on higher layer issues, such as application modeling in dynamic MANET environments. ...

Keywords: anycasting, device/service discovery, distributed application execution, mobile ad hoc networks, task graphs

15 Software engineering for mobility: a roadmap

Gruia-Catalin Roman, Gian Pietro Picco, Amy L. Murphy

May 2000 **Proceedings of the Conference on The Future of Software Engineering**

Full text available:  pdf(2.07 MB) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

16 Service discovery in agent-based pervasive computing environments

Olga Ratsimor, Dipanjan Chakraborty, Anupam Joshi, Timothy Finin, Yelena Yesha

December 2004 **Mobile Networks and Applications**, Volume 9 Issue 6

Full text available:  pdf(443.01 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Directory based service discovery mechanisms are unsuitable for ad-hoc m-commerce environments. Working towards finding an alternate mechanism, we developed Allia: a peer-to-peer caching based and policy-driven agent-service discovery framework that facilitates cross-platform service discovery in ad-hoc environments. Our approach achieves a high degree of flexibility in adapting itself to changes in ad-hoc environments and is devoid of common problems associated with structured compound forma ...

Keywords: advertising, agents, caching, device preferences, device profiles, mobile service discovery

17 Ibis: an efficient Java-based grid programming environment

Rob V. van Nieuwpoort, Jason Maassen, Rutger Hofman, Thilo Kielmann, Henri E. Bal

November 2002 **Proceedings of the 2002 joint ACM-ISCOPE conference on Java Grande**

Full text available:  pdf(120.05 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#), [review](#)

In computational grids, performance-hungry applications need to simultaneously tap the computational power of multiple, dynamically available sites. The crux of designing grid programming environments stems exactly from the dynamic availability of compute cycles: grid programming environments (a) need to be *portable* to run on as many sites as possible, (b) they need to be *flexible* to cope with different network protocols and dynamically changing groups of compute nodes, while (c) t ...

Keywords: Java, grid computing, performance, portability

18 A survey of research on context-aware homes

Sven Meyer, Andry Rakotonirainy

January 2003 **Proceedings of the Australasian information security workshop conference on ACSW frontiers 2003 - Volume 21**

Full text available:  pdf(219.36 KB) Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

The seamless integration of people, devices and computation will soon become part of our daily life. Sensors, actuators, wireless networks and ubiquitous devices powered by intelligent computation will blend into future environments in which people will live. Despite showing great promise, research into future computing technologies is often far removed from the needs of users. The nature of such future systems is often too obtrusive, seemingly denying their purpose. Furthermore, most research o ...

Keywords: environments, pervasive, privacy, smart context-aware homes, smart sensors, ubiquitous computing, user-experience

19 Limited-lifetime shared-access in mobile systems

Zygmunt J. Haas, Sanjoy Paul

February 1995 **Wireless Networks**, Volume 1 Issue 2

Full text available:  [pdf\(861.11 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

In this paper, we propose a simple access protocol to shared information in a mobile environment. The objective of the proposed scheme is to allow a specified set of users access to shared information and protect the confidentiality of the information from users outside this set. The set of users may be updated from time to time. In particular, the duration during which a user is allowed access to the shared information may be restricted. Furthermore, the information itself has limited life ...

20 Next century challenges: data-centric networking for invisible computing: the Portolano project at the University of Washington

Mike Esler, Jeffrey Hightower, Tom Anderson, Gaetano Borriello

August 1999 **Proceedings of the 5th annual ACM/IEEE international conference on Mobile computing and networking**

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... change the image being displayed by the label at **runtime**. ... is created in Listing 3 by **instantiating** an anonymous ... Causes this thread to begin **execution**; the Java ...

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... the two concepts of classpath: that for compilation and that for **execution**. ...

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... Students can see how these concepts work in **execution**. ... your classes and JAR files can be loaded at **runtime**, so SSS can be ... Figure 4. **Instantiating** a String. ...

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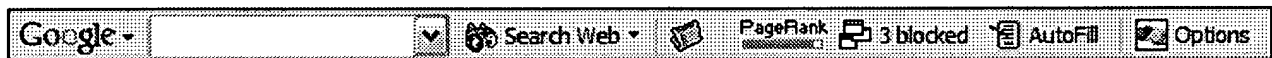
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